

APPENDIX D**ALLOWANCE EQUIPAGE LIST
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6-D.0 INTRODUCTION

This appendix provides specific instructions for the preparation and processing of Allowance Equipage Lists (AELs). It implements the policies and supplements the responsibilities set forth in Chapter 6 of this manual. It defines AELs, identifies AEL categories, and provides procedures to be followed in the preparation of an AEL. It provides guidance on the preparation and use of AELs. Finally, it describes the method of establishing requirements for unique systems and the method used to extract the data required to prepare AELs for portable electronic test equipment.

6-D.1 AEL DEFINITION

AELs establish allowances for items that: are required to perform a specific operational function; are needed for the performance of maintenance actions; and are needed for the safety and protection of personnel. Materials that are identified and provided through AELs are generally identified as Operating Space Items (OSI) in the ship's COSAL, loaded into specific spaces within a ship, and remain in the custody of the operating department responsible for the space identified. Part II Section C of the COSAL contains the AELs authorized for a ship. The COSAL Summary of APLs\AELs lists the AELs that apply to the ship. Part III Section B of the COSAL provides a Stock Number Sequence List (SNSL) of the OSI authorized to be on the ship. AELs include technical and logistic information related to specific equipage categories. All AELs fall into one of the following categories:

- 0 - Ordnance Related Equipage and OSI
- 1 - Shipboard Spaces and System/Equipment Oriented Equipage and OSI
- 2 - Miscellaneous Shipboard Equipage and Support Material
- 3 - Unassigned
- 4 - Flag Allowance
- 5 - Strategic Systems Programs (SSP) Equipage and OSI
- 6 - Special Propulsion Plant Equipage and OSI
- 7 - Portable Electronic Test Equipment
- 8 - TRIDENT Submarine Unique
- 9 - Nuclear Weapons

Most of the above categories are self-explanatory based on their nomenclature. However, the following paragraphs serve to provide a brief explanation of those less self-explanatory.

A Flag allowance shall be included in the COSAL for ships that are designated to carry Flag Officers and their staffs on board

as part of their mission. Special allowance for Flags may be authorized for any ship in the Fleet when it is designated to carry a Flag or Staff. AELs for Flags and Staffs have a 4-00000 designation and are to provide extra equipage and OSI for general housekeeping, offices, navigation, and personnel oriented support.

Fleet Ballistic Missile program equipage is identified on 5-00000 AELs.

Nuclear Reactor Plant Equipage is identified on 6-00000 AELs. Ships that have this type of propulsion will have a special COSAL segment for Reactor Plants and will have equipage and OSI that is identified by 6-00000 AELs.

The Weapon Systems File (WSF) creates 7-00000 AELs for portable Electronics Test Equipment.

AEL numbers in the 8-00000 series are reserved for the use of the TRIDENT missile system.

AEL numbers in the 9-00000 series are reserved for Nuclear Weapons Equipage.

The items in Attachment 1 to this appendix are considered to be Non-AEL Worthy. Attachment 2 to this appendix identifies items that are included in the COSAL for Information Only and are included in AELs.

If there are any questions regarding the assignment of AEL numbers, contact NAVSEA 041 or NAVSEALOGCEN N40 to resolve the issue/question.

6-D.2 AEL PREPARATION

Preparation of AELs is a complex task requiring the review of ship design plans and specifications to determine the equipage and OSI required for the operation and safety of the ship and the personnel assigned to it. The Plans, Specifications, and Technical Manuals provide the information needed to determine equipage and OSI for system or equipment related AELs. AELs shall be prepared on NAVSEA Form 4441/1 format as follows (the upper case print denotes the block on the form; a copy of NAVSEA Form 4441/1 is provided as Figure D-1):

- a. EQUIPAGE NOMENCLATURE/CHARACTERISTICS - Enter the noun name of the equipage category. (Limited to 48 characters.)
- b. TECHNICAL DOCUMENT NUMBER -
 - MANUAL - Enter technical manual identification if applicable

- DRAWING - Enter the applicable drawing and piece number. If the equipage is ship related, enter the appropriate ship plan and specification.
- c. IDENTIFICATION NUMBER - Develop and enter the AEL number as follows:
- Electronic and Gun Fire Control system AELs:
 - Positions 1 through 7 shall be obtained from the list published annually by NAVSEALOGCEN.
 - Position 8 shall be "A."
 - Positions 9 through 11 reflect a numeric serial number.
 - Hull, Mechanical and Electrical (HM&E) and Ordnance Program Support Equipment:
 - General Category - Obtain the equipage category codes from paragraph 6-D.1 above.
 - Positions 1 through 7 shall be obtained from the database maintained by NAVSEALOGCEN.
 - Position 8 shall be an "A."
 - Positions 9 through 11 reflect a numeric serial number.
- d. DATE - Enter the calendar date the AEL is prepared.
- e. PAGE - Number pages consecutively
- f. CHARACTERISTICS - Enter the characteristics of equipage.
- g. SERVICE APPLICATION CODE - Enter a Service Application Code (SAC) constructed from the following:
- Service Application - Enter the description of the service application followed by the SAC obtained from current Navy directives.
 - Column - Enter the column to be used.
 - Responsibility - Enter code identifying responsibility for procurement of equipage and OSI listed on the AEL.

ALLOWANCE EQUIPAGE LIST (AEL)

EQUIPAGE NOMENCLATURE/CHARACTERISTICS			MANUAL		IDENTIFICATION NO.	DATE	PAGE									
CHEMICALS AND EQUIP BOWR/FDWTR TEST AND TREATMENT			TECHNICAL DOCUMENT NUMBER	PLAN												
CHARACTERISTICS			S S M R E C S O U R C E S		ON BOARD ALLOWANCE TABLE											
CHEMICALS AND EQUIPMENT BASED ON THE NUMBER OF BOILERS PER SHIP			C O U N T Y		U N I T Y		C O L		C O L		C O L		C O L			
QUANTITIES IN COLUMN 2 FOR 2 BOILERS			C O U N T Y		U N I T Y		C O L		C O L		C O L		C O L			
QUANTITIES IN COLUMN 3 FOR 3 BOILERS			C O U N T Y		U N I T Y		C O L		C O L		C O L		C O L			
QUANTITIES IN COLUMN 4 FOR 4 BOILERS			C O U N T Y		U N I T Y		C O L		C O L		C O L		C O L			
QUANTITIES IN COLUMN 8 FOR 8 BOILERS OR MORE			C O U N T Y		U N I T Y		C O L		C O L		C O L		C O L			
QUANTITIES LISTED AMOUNT TO A SIX MONTHS SUPPLY			C O U N T Y		U N I T Y		C O L		C O L		C O L		C O L			
FSCM-09950			C O U N T Y		U N I T Y		C O L		C O L		C O L		C O L			
OAAATQ-FEEDWATER SYSTEM-TESTING EQUIPMENT			C O U N T Y		U N I T Y		C O L		C O L		C O L		C O L			
ZZA605	APRON-LABORATORY	9Q 8415-00-634-3023	UPA0ZZ	1	EA	1	1	2	2	2	2	2	2	4		
MILB26701	BOTTLE POLY 1 QT	9G 825-00-819-6085	UPA0ZZ	1	EA	1	12	18	24	24	24	24	24	48		
92372	CANISTER-GAS MASK-ROCKE	9G 4240-00-764-6301	UPA00Z	1	EA	1	1	2	2	2	2	2	2	4		
MILW15000 CLASS F	CHLORIDE INDICATOR CL	IH 6810-00-753-4907	UPC0ZZ	1	BT	1	2	3	4	4	4	4	4	8		
D-62	DIMETHYLGLYOXIME, AC	9G 6810-01-082-5414	UPA0ZZ	1	BT	1	1	2	2	2	2	2	2	4		
GGG-G-521	GOOGLES, INDUSTRIAL	9G 4240-00-190-6432	UPA0ZZ	1	PR	1	2	3	4	4	4	4	4	8		
292	HARDNESS TITRATING	IH 6810-01-072-1978	UPC0ZZ	1	GL	1	1	2	2	2	2	2	2	4		
MILR24019	ION EXCHANGE COMPOU	IH 6810-01-029-4217	UPA0ZG	1	CF	1	6	9	12	12	12	12	12	24		
2240-0050	JERRICAN-5GAL PLASTIC	9L 6640-01-083-9756	UPA0ZZ	1	EA	1	2	3	4	4	4	4	4	8		
93497	MASK-GAS ROCKET PROPELL	9F 4240-00-902-5516	UPA0ZZ	1	EA	1	1	2	2	2	2	2	2	4		
MILW15000 CLASS B	MERCURIC NITRATE-0.5N CL	IH 6810-00-281-4163	UPC0ZZ	1	BT	1	3	5	6	6	6	6	6	12		
MILW15000 CLASS E	METHYL RED-ACID BLUE	9G 6810-00-142-9290	UPA0ZZ	1	BT	1	1	2	2	2	2	2	2	4		
OM0575 CLASS 3	MORPHOLINE, TECHNICA	9G 6810-00-419-4298	UPA0ZZ	1	CN	1	4	6	8	8	8	8	8	30		
MILW15000 CLASS A	NITRIC ACID 10N	IH 6810-00-270-9978	UPA0ZZ	1	QT	1	2	4	4	4	4	4	4	8		
BBN411	NITROGEN-TECH	9G 6830-00-244-2741	UPA0ZZ	1	CF	1	12	18	24	24	24	24	24	48		
P79	PHENOLPHTHALEIN, ACS	9G 6810-00-223-7612	UPA0ZZ	1	OZ	1	1	2	2	2	2	2	2	4		
291	POWDER, HARDNESS BUP	IH 6810-01-072-1977	UPC0ZZ	1	BT	1	1	2	2	2	2	2	2	4		
290	POWDER, HARDNESS IND	IH 6810-01-072-1979	UPC0ZZ	1	BT	1	1	2	2	2	2	2	2	4		
8268-MII	SCOOP, PLASTIC, 2 IN BOWL	9Q 7330-01-079-0694	UPA0ZZ	1	EA	1	2	3	4	4	4	4	4	8		
REFERENCE NO./DESCRIPTIVE DATA			ITEM NAME		STOCK NO.		1	2	3	4	5	6	7	8		
CG 68	H 309	ALLOWANCE EQUIPAGE LIST (AEL)														
SHIP TYPE & HULL NO.		PAGE	C O U N T Y		IDENTIFICATION NO.										DATE	PAGE
2-560004103		1	U N I T Y		2-560004103										03-15-92	1

Figure D-1
NAVSEA Form 4441/1

h. INDIVIDUAL ITEM IDENTIFICATION - Enter the following data for each item of equipage or OSI:

- Reference Number - drawing and piece number or valid manufacturer's part number
- Item Name
- National Stock Number (if available)
- CAGE
- Unit of Issue
- Quantity required - application by column
- Unit price

6-D.3 POLICY

The following policy shall apply to the development of AELs:

- a. There shall be an accurate and complete AEL developed for each Ship, Ship Class, as well as systems and equipment, that require equipage or OSI for operation, maintenance, or testing.
- b. AELs shall be developed while a ship is under construction and maintained for the life cycle of the ship. AELs shall be reviewed for updating and change whenever a ship undergoes a conversion, overhaul, or availability.
- c. System and equipment related AELs shall be prepared when the system or equipment is under acquisition. System and equipment related AELs shall be maintained and updated whenever the system or equipment receives an alteration based on an approved design change.
- d. A Baseline AEL conference will be held in accordance with the Joint Instruction NAVSEA 4441.7B/NAVSUP 4441.29, Supply Readiness Objective and Milestones.

6-D.4 SCOPE

- a. The following categories of equipage require allowance change approval action by the cognizant In Service Engineering Agents (ISEAs). Only the ISEA is authorized to adjust the ship's initial fitting-out allowance of equipage material in the categories listed below. Requests for changes to AELs in the categories listed below must be routed to the cognizant ISEA

(or designated representative) for review and approval. (See Chapter 8 for processing of Allowance Change Requests.)

<u>AEL CATEGORY</u>	<u>EQUIPAGE</u>
0-xxxxx	Ordnance Equipage
2-12001	Life Buoys, Rings, & Accessories
2-15xxx	Misc., Refueling Equipment
2-24xxx	Navigation
2-33001	Life Preservers and Accessories
2-33002	Air Purification, Submarine Escape and Rescue Equipment
2-37xxx	Medical Equipment
2-48050	Piping Fittings, Reactor System
2-51xxx	Misc. Boiler Applications
2-55xxx	Fueling at Sea, Misc. Fuel Test and Measuring Equipment
2-56xxx	Boiler Feed Water Test Equipment
2-70xxx	Flags and Pennants
2-75xxx	Torpedo and Mine Handling Equipment
2-77xxx	Chemical, Biological, and Radiological Equipment, Test Kits, and Respirators
2-80xxx	Regunning, Lifting and Handling Gear
2-81xxx	Minesweeping Gear
2-82xxx	Small Boats & Crafts, Equipage
2-87xxx	Instruments, Testing, Measuring, Indicating
2-88xxx	Damage Control Equipment
2-93xxx	Fire Fighting, Breathing Apparatus
2-94xxx	Salvage Equipment
2-95xxx	Diving Apparatus
4-xxxxx	Flag Officers' (and their staffs') allowances
5-xxxxx	Equipage & OSI for Fleet Ballistic Missiles
6-xxxxx	Nuclear Equipment
7-11xxx	SPAWAR Electronics
7-67xxx	Portable Communications, Infrared, RADIAC, SONAR, Electrical and Electronic Testing Equipment

b. All other AEL categories (other than those listed in 6-D.4 Paragraph a) are categories in which the NSA has been granted the authority to make adjustments in the ship's initial fitting-out allowance of equipage material. These adjustments need not be reported to the cognizant ISEA. (See Chapter 8 for processing of Allowance Change Requests.) In exercising this delegated authority, the NSA shall observe the following:

1. The total cost of all such locally authorized adjustments shall not exceed two percent of the total cost of the equipage allowance in this category as tabulated in Part III, Section B of the ship's first published COSAL.

2. Weight, moment, and space limitations will constrain these adjustments to a ship's initial outfit.

6-D.5 RESPONSIBILITIES

The following responsibilities shall be assumed and the functions assigned shall be accomplished:

6-D.5.1 NAVSEA 041

NAVSEA 041 will:

- a. Provide policy and guidance for the development and utilization of AELs.
- b. Provide budgeting and funding as required to develop AELs.

6-D.5.2 Ship Program Managers

SPMs will:

- a. Designate a comparable ship to be used in the development of ship level AELs.
- b. Require Participating Managers (PARMs) to have AELs prepared for new systems and equipment.
- c. Interface with NAVSEA damage control personnel and Fleet Commanders to ensure that ship level damage control and safety related AELs are developed and included in each ship's Coordinated Shipboard Allowance List (COSAL).
- d. Provide ship level drawings to the applicable Technical Support Activity (TSA) responsible for provisioning the ship, to NAVSEALOGCEN, and to the Naval Inventory Control Point-Mechanicsburg (NAVICP-M) to be used in the preparation of ship level AELs.
- e. Require the applicable ISEA to determine which AELs are required for system and equipment certification.
- f. Ensure that AELs are entered into the Ship Configuration and Logistics Support Information (SCLSI) database as part of Configuration Overhaul Planning (COP).

6-D.5.3 Participating Managers

Participating Managers (PARMs) will:

- a. Include the requirement for system and equipment drawings in acquisition contracts. These drawings shall be adequate to determine equipage required to operate and maintain the system or equipment as well as define which equipage is required for shipboard certification of the system or equipment.
- b. Interface with the designated TSA to ensure that adequate AEL data is provided to NAVSEALOGCEN and NAVICP-M for the preparation and publication of AELs. Each published AEL shall provide adequate equipage for the operation and maintenance of systems and equipment and for alterations and modifications of systems and equipment.

6-D.5.4 Naval Surface Warfare Center Carderock Division Ship Systems Engineering Station

Naval Surface Warfare Center Carderock Division Ship Systems Engineering Station (NSWCCD SSES) will:

- a. Chair the annual conference to update HM&E AELs.
- b. Update and maintain an AEL database on fire fighting and damage control equipment. Ensure this database is compatible with ICAPS to provide for rapid update of the Weapon Systems File (WSF) at NAVICP-M.

6-D.5.5 NAVSEA 91L

NAVSEA 91L will:

- a. Establish procedures to maintain ordnance and electronic system oriented AELs in a current state.
- b. Direct ISEAs to provide updated data whenever an ordnance or electronic system is modified or altered.
- c. Establish procedures to provide for AEL data development during system or equipment acquisition.
- d. Direct acquisition managers and ISEAs to provide for AEL development prior to installation of systems, equipment, and alterations.

6-D.5.6 Naval Supervising Activity

Naval Supervising Activities (NSAs) will:

- a. Develop required AELs from drawings, ship contract specifications, etc.
- b. Report all AELs to the ship's CDM.
- c. Provide PTD and NAVSEA Form 4441/1 to support new or revised AELs to the applicable TSA.

6-D.5.7 In Service Engineering Agents

ISEAs will:

- a. Review systems and equipment drawings (including revisions) to determine equipage requirements.
- b. Determine equipage validation requirements for systems and equipment.
- c. Provide AEL data to NAVICP-M.

6-D.5.8 Naval Sea Logistics Center

NAVSEALOGCEN will:

- a. Review and validate all requests for new AEL development or changes to existing AELs under NAVSEALOGCEN technical cognizance and assist in their preparation.
- b. Assign permanent AEL numbers for equipage categories under NAVSEALOGCEN technical cognizance.

6-D.5.9 Naval Inventory Control Point-Mechanicsburg

NAVICP-M will:

- a. Review data, plans, and drawings provided by NSAs, NAVSEALOGCEN, ISEAs, TSAs, SPMs, and PARMs to validate AEL requirements.
- b. Maintain the AEL data in the WSF.
- c. Publish COSALs on an as required basis to provide AEL indexes and the ship's allowance list.

ATTACHMENT 1 NON-AEL WORTHY ITEMS

A. The following items are not AEL worthy:

- (1) Items that are installed and require no repair parts or foreseeable replacement, e.g. bookcases, benches, cleats.
- (2) Items that are usually fabricated or assembled on site from locally available materials.
- (3) Items that are portable and readily available from commercial sources for both outfitting and replacement, have no application to any installed equipment, and have no operational or military necessity.

The listing below provides examples (Note--This listing is representative and shall not be construed as "All-Inclusive".):

ADAPTERS - Hose & Pipe (miscellaneous installed)
 AIRSCOOPS - Airport; portlight
 AWNINGS
 BASES - Filing cabinets
 BENCHES - Mess & Dining
 BERTHS & BEDS
 BILGE PAD ASSEMBLIES - Boat
 BOOKRACK
 BOOKCASES
 BOARDS - Absentee, bulletin, nameplate
 BRIDLE PLATES AND YOKES
 BROWS - Aluminum or wood
 BUCKLERS - Turret, fabric
 BUFFETS - Dining
 BULLETIN BOARDS
 BOXES - Fire alarm (breakage type for CO2 activation)
 CABINETS - Filing, storage, washroom, etc.
 CAMERAS - (NAVAIR Pub.)
 CANOPIES
 CASTERS - Chair, gang plank
 CHAIRS
 CHOCKS
 CLAMPS - Hose miscellaneous installed
 CLEATS - Installed
 CLEATS - Rod end (installed)
 COMMON HAND TOOLS - Screwdrivers, wrenches, pliers, socket sets, etc.
 COMPUTERS, PERSONAL - Laptop and Desktop
 COUPLINGS - Hose miscellaneous (for minor drains, washdown)
 COVERS - Furniture, chair, canvas (bulk material)
 COVER ASSEMBLY - Hatch

CRADLES - Boat, torpedo
 CURTAINS - Airport, door, shower
 DAVITS - Portable (pipe type)
 DEADLIGHTS - Airport or portlight
 DECK FITTINGS FOR BLOCKS, etc.
 DISCS - Safety Pressure for CO2 extinguisher
 DISPENSER - Dish, tray, soap
 DOGS - Hatch, scuttle
 DOLLY - Boat stowage
 DOORS
 DOOR MATS - Cocoa fiber
 ENTERTAINMENT EQUIPMENT - Television, Video Recorders, Speakers,
 Stereo Equipment, etc.
 EYELET FASTENER - Installed
 FAIRLEADERS
 FILES
 FITTINGS - Lubrication (installed)
 FITTINGS - Door, locker, drawer
 FOOT STOOLS
 FORMS - Message Blanks, etc.
 FRAMES - Door, hatch
 FURNITURE - Chairs, decks, tables, sofas, etc.
 GEAR - Operating (for remote valves)
 GEAR - Regunning
 GLASS - Airport, portlight, pullbox for fire
 GRIPES - Outside, inside
 GUN - Line throwing
 GUN - Spray water (installed type for laundry press)
 HAMMOCK
 HAMPERS
 HANDRAILS
 HANDLES - Door
 HATCHES
 HEADS - Sprinkler installed
 HOLDERS - Clinical chart, sputum cup (on BUMED portion of COSAL)
 HOSE - Miscellaneous lengths and fittings (steaming out, tank
 filling drains, etc.)
 HULL FITTINGS - Miscellaneous
 INSTRUMENTS - Musical
 LADDERS - Accommodation
 LADDERS - Jacobs (Non-standard lengths)
 LANYARDS
 LIGHT FIXTURES - Installed
 LIGHT LOCKS
 LINKS - Fabricated types (eye pad)
 LOCKERS - Poison antidote, safe, etc.
 LOCKING DEVICES - Cypher locks, pad locks, combination locks, key
 locks, etc.
 MARKERS - Luminous radioactive

MESSING APPLIANCES - Toasters, blenders, waffle makers, hand mixers, etc.
MINE CLEARING CABLES - Installed fittings
NETS - Safety (Installed)
NIPPLES - Hose and pipe (installed)
NOZZLES - Hose miscellaneous (garden type, washdown, etc.)
PADS - Table
PADDLES - Signal (Fabricated per NWP 38)
PADEYES
PHYSICAL FITNESS EQUIPMENT
PLATES - Surface, bending, bench
POCKETS - File visible (for file cabinets)
PORTLIGHTS
PROJECTORS - Film, slide, movie, overhead, etc.
PUBLICATIONS
RACKS - Book, swab
RAMPS - Portable type (stowed on bulkheads)
REDUCERS - Hose miscellaneous (minor drains, washdown, etc.)
RINGS - Curtain, shower, window
RUGS
SAFES
SAFETY DISCS - Pressure CO2
SCOOPS - Air, (for airport, portlights, windows)
SCREENS - Film, slide, movie, overhead, etc.
SEATS - Bench, bucket
SINKS - Plate processing
SLABS - Bending, Welding
SLIP COVERS - Furniture
SOFTWARE
SPRAY GUNS - Water overhead for laundry press
STAFFS - Jack, ensign
STAGES - Metal, wood, plastic
STANCHIONS - Awning, handrail
STANDS - Instrument, dressing (medical bed service)
STATION MARKER BOXES (fabricated per NWP 38)
STATION MARKERS (fabricated per NWP 38)
STOOLS - Foot
STRONGBACKS - Boat, winch
STUD ASSEMBLIES - Holding type (bulkhead, deck house)
TABLES - Mess, end, coffee, chart, writing
TANKS - Small portable type (oil stowage, acid mix, day tanks)
TAPE - Luminous deck marking
TELEPHONES - Cellular, installed, etc.
TIPS - Chair Leg
THIMBLES - Rope rigging
THWARTS - Portable
TOGGLES - Toggle pins
TOPS - Cabinets filing
TUBS - Cleaning, quenching, galley
VATS - Cleaning, stowage

VICES - Machinist

WEATHER CLOTHS

WEDGE BAR ASSEMBLIES - Special for test castings

WINDOWS - (except for electrically heated types)

WIND SCREENS - Landing Officers

WORK BENCHES

WRENCHES - Non-standard (deck, drain, hatch, etc.)

ATTACHMENT 2 INFORMATION ONLY AELS

A. The following items are to be included in COSALs for information only. Mark-up applicable AEL with required quantities for local use only.

(1) Canvas Covers for the following types of equipment:

(a) Lifting Gear - (COSAL to show plans only in AEL series 2-41006, 2-92003)

(b) Rigging - (2-18001 series) (show only spare blocks, ropes, etc.)